



(12) **United States Patent**  
**Shah**

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(54) **THERAPEUTIC INTERVENTION SYSTEMS  
EMPLOYING IMPLANTABLE BALLOON  
DEVICES**

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(58) **Field of Classification Search** ..... **600/116;**  
**606/192**

See application file for complete search history.

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(57) **ABSTRACT**

A method of treating a patient comprises: introducing to a physiological locus of said patient a balloon formed from two vacuum thermoformed half-sections of a multilayer film a layer of sealing film and at least one layer of thermoplastic polymer film, wherein the vacuum thermoformed half-sections are bonded together; and the balloon includes an inflation element (such as a self-healing valve and/or an effervescent material) adapted to permit inflation of the balloon at the physiological locus with a fluid.

**25 Claims, 2 Drawing Sheets**

